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## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 8947-000005/US/DVA First Inventor In-Young CHUNG ESCALATOR CODE-BASED DAC AND DELAY-LOCKED LOOP Title APPARATUS AND CORRESPONDING METHODS

(Only for r	Expn	ress Mail La	abel No.				<u>P</u>			
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.					ADDRESS TO: Commissioner for Patents  Box Patent Application P.O. Box 1450  D.D. D.D. D.D. D.D.D.D.D.D.D.D.D.D.D.D					
2.	Fee Transmittal (Submit an original ar Applicant claims See 37 CFR 1.2 Specification (preferred arrange - Descriptive title o - Cross Reference - Statement Regar - Reference to seq or a computer pro - Background of th - Brief Summary or - Background of th - Brief Description - Detailed Descript - Claim(s) - Abstract of the D - Drawing(s) (35 L - Declaration - Newly execute - Copy from a p - (for a continual - DELETION - Signed statemenamed in the polication Data S - Delication Data S	cessing) s. al Pages 32 ] ions R & D , x iled) tal Sheets 25 al Pages () CFR 1.63 (d)) a Box 18 completed (S) inventor(s)	1	ADDRESS TO: Box Patent Application P.O. Box 1450 Alexandria, VA 22313-1450  7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies  ACCOMPANYING APPLICATIONS PARTS  9. Assignment Papers (cover sheet & document(s)) 10. 37 C.F.R.§3.73(b) Statement Power of (when there is an assignee) Attorney  11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  17. Other: Letter Regarding Renumbering of Claims						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No: 10/251,873  Prior application information: Examiner P. Wamsley Group / Art Unit: 2819  For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
			17. CORRESP						producti parto.	
☐ Correspondence address below  Customer Number or Bar Code Label  30593 (Insert Customer No. or Attach bar code label here)										
Name Harness, Dickey & Pierce, P.L.C.										
	P.O. Box 8910									
Address										
City	Reston State			V	VA Zip Co		Code	20195		
Country	United States	of America	Telephone	70	703-668-8000 Fax 703-668-8200			703-668-8200		
Name (Pi	rint/Type)	Thomas S. Auch	nterionie	Re	gistration	No. (Atto	mey/A	Agent)	37,275	
Signature			Hucht	rlo	Date April 16, 2004				April 16, 2004	

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

■ Applicant claims small entity status. See 37 CFR 1.27

OTAL AMOUNT OF PAYMENT	(\$)	770
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Complete If Known					
Application Number					
Filing Date					
First Named Inventor	•				
Examiner Name					
Art Unit					
Attorney Docket No.					

METHOD OF PAYMENT (check all that apply)						FEE CALCULATION (continued)					
Chook C Coditional C Manage C Other C Name						3. ADDITIONAL FEES					
☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order						Large_Entity Small Entity					
Deposit Account:											
Deposit		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid				
Account	08-0750				1051	130	2051	65	Surcharge - late filing fee or oath		
Number					1052	50	2052	25	Surcharge - late provisional filing fee		
Donosit							or cover sheet.				
Deposit Account		1053	130	1053	130	Non-English specification					
Name	Harness, Dickey &				1812	2,520	1812	2,520	For filing a request for reexamination		
The Director is a	uthorized to: (che	ck all that ap	plv)		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
Charge fee(s) i	ndicated below	Credit any	overpayments		1805	1,840*	1805	1,840*	Requesting publication of SIR after	<del></del>	
☐ Charge any ad☐ Charge fee(s) i			ncy of this application	1	1				Examiner action		
to the above-ident			tiling tee		1251	110	2251	55	Extension for reply within first month		
		CULATION			1252	420	2252	210	Extension for reply within second month		
1. BASIC F	ILING FEE				1253	950	2253	475	Extension for reply within third month		
Large Entity	Small Entity				1254	1,480	2254	740	Extension for reply within fourth month		
		e Description	Fee Paid		1255	2,010	2255	1.005	Extension for reply within fifth month		
	• • •	ility filing fee	770	7	1401	330	2401	165	Notice of Appeal		
		esign filing fee	770	┨	1402	330	2402	165	Filing a brief in support of an appeal		
		ant filing fee		┪	1403	290	2403	145	Request for oral hearing		
		issue filing fe		1	1451	1,510	1451	1,510	Petition to institute a public use		
1005 160 2		ovisional filling	<u> </u>	1	1452				proceeding		
						110	2452 2453	55 665	Petition to revive – unavoidable		
	SUBTOTAL (	1)	(\$) 770	J	1453 1501	1,330	2453 2501	665	Petition to revive – unintentional Utility issue fee (or reissue)	$\vdash$	
2. EXTRA CLA	IM FEES FOR	UTILITY AN	ID REISSUE		1502	480	2502	240	Design issue fee	$\vdash$	
			ee from Fee		1503	640	2503	320	Plant issue fee		
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Total Claims 8 Independent	-20 ** = 0	<u></u>   ×	= 0	╣	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	, —	
Claims 2	-3** = 0	×	= 0		1806	180	1806	180	Submission of Information Disclosure Stmt		
Multiple		x [	= 0	ī					Recording each patent assignment		
Dependent  Large Entity	Small Entity	^L		J	8021	40	8021	40	per property (times number of properties)		
Fee Fee	Fee Fee				1809	770	2809	385	Filing a submission after final rejection	,——	
Code (\$)	Code (\$)	Fee Descri	<u>otion</u>						(37 CFR § 1.129(a))		
1202 18	2202 9	Claims in ex	cess of 20		1810	770	2810	385	For each additional invention to be		
1201 86	2201 43	•	t claims in excess of 3						examined (37 CFR § 1.129(b))		
1203 290	2203 145		endent claim, if not pai		1801	770	2801	385	Request for Continued Examination (RCE)		
1204 86	2204 43	original pate			1802	900	1802	900	Request for expedited examination		
1205 18	2205 9		claims in excess of 20 a	nd					of a design application		
	•	over origina	patent	_	Other fee (specify)						
	SUB	TOTAL (2)	(\$) 0								
1, [47]					*Reduc	ed by Ba	asic Filin	g Fee Pa	aid SUBTOTAL (3) (\$) 0		
*or number previously paid, if greater; For Reissues, see above											

SUBMITTED BY Complete (if applicable)								
Name (Print/Type)	Thomas S. Aschlerionie Registration No (Atformey/Agent)	37,275	Telephone	(703) 668-8000				
Signature	Thomas huchderloud		Date	4/16/2004				

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## **PATENT** 8947-000005/US/DVA

## IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant:

In-Young CHUNG

Appl. No.:

New

Group:

Unknown

Filed:

April 14, 2004

Examiner: Unknown

Title:

ESCALATOR CODE-BASED DAC AND DELAY-LOCKED

LOOP APPARATUS AND CORRESPONDING METHODS

## LETTER REGARDING RENUMBERING OF CLAIMS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 April 16, 2004

Sir:

Claims 1-8 are pending. Of those, claims 1 and 6 are independent.

The present application is a divisional of parent Application No. 10/251,873. As such, claims 1-8 of the present application correspond to claims 8-15 of the parent application, albeit respectively renumbered.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C

Thomas S. Auchterlonie

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JAC/TSA:dg